

What is claimed is:

1. A focal plane shutter for cameras comprising:

a shutter base plate having a first opening for a photographing path,

an auxiliary base member which has a second opening to regulate an opening for the photographing optical path by at least one of the first opening and the shutter base plate, and constitutes a blade chamber between the shutter base plate and the auxiliary base member,

a shutter blade which is constituted by a plurality of arms arranged in the blade chamber and pivoted on the shutter base plate, and at least one blade pivoted respectively on each arm,

an actuating member which is rotatably arranged on the shutter plate and is connected with the shutter blade, and actuates the shutter blade by its reciprocating rotation between a fully opened position and a completely closed position of the opening for the photographing optical path,

an electromagnetic actuating device which is arranged on the shutter base plate and carries out the reciprocating rotation of the actuating member,

a brake member which is rotatably arranged on the shutter base plate and has two pressed portions which are contacted, pressed and moved by the actuating member at each termination stage of the reciprocating rotation of the actuating member,

and

a brake means which brakes rotation of the brake member by friction power generated by contacting under pressure with the brake member.

2. A focal plane shutter for cameras according to claim 1, wherein two blade chambers are formed by partitioning space between the shutter base plate and the auxiliary base member, and a shutter blade is arranged in one of the blade chambers and another shutter blade is arranged in another blade chamber, and for said another shutter blade respective constituting means which is corresponding to the actuating member, the electromagnetic actuating device, the brake member and the brake means is individually arranged.

3. A focal plane shutter for cameras according to claim 1 or 2, wherein the electromagnetic actuating device has a rotor made of permanent magnet, the actuating member has a driving pin connected to the shutter blade, and the rotor is constituted in one with the actuating member.

4. A focal plane shutter for cameras according to claim 3, wherein a rotation shaft of the rotor is pivoted perpendicularly to the shutter base plate, the brake member has V-shape which is formed by two arm portions extending from attachment portion to the shutter base plate, the rotation shaft is arranged between the arm portions, the pressed portions are formed near the tip of the two arm portions, the brake means is a friction plate mounted in piles on the attachment portion and the driving pin of the brake member is constituted to contact, press and move the pressed portions.